

Patent claims

1. Composition comprising at least the two components Z1 and Z2, the
5 composition comprising,
- c) as component Z1, at least one polyaddition product or at least one
polycondensation product having on average 2 aziridino groups
or more and a molecular weight of at least 1000 and,
 - 10 b) as component Z2, at least one compound having 1 aziridino
group, at least one compound according to component Z2
differing, in its chemical make-up, from at least one compound
according to component Z1 in at least one further feature other
than the number of the aziridino groups.
- 15
2. Composition according to claim 1, characterised in that it comprises, as
component Z1, at least one polymer selected from the group consisting of
polyethers, polyesters, polyurethanes and polydimethylsiloxanes.
- 20
3. Composition according to claim 1 or 2, characterised in that it comprises,
as component Z1, a polyether having at least a proportion of
tetrahydrofuran units.
- 25
4. Composition according to one of claims 1 to 3, characterised in that it
comprises, as component Z2, a compound selected from the group
consisting of polyethers, polyesters, polyurethanes and
polydimethylsiloxanes.
- 30
5. Composition according to one of claims 1 to 4, characterised in that
component Z2 differs from component Z1 in one or two or more of the
following further features:
- i) number average of the molecular weight,

- ii) weight average of the molecular weight,
- iii) polydispersity,
- iv) composition of the polymer backbone,
- v) end groups.

5

6. Composition according to one of claims 1 to 5, characterised in that it comprises, as component Z2, a compound having a molecular weight of 300 or more.

10

7. Composition according to one of claims 1 to 6, characterised in that it comprises an additive or a mixture of two or more additives.

8. Process for the preparation of a composition according to one of claims 1 to 7, wherein two components Z1 and Z2 are mixed together, there being used,

15

- a) as component Z1, at least one polyaddition product or at least one polycondensation product having on average 2 aziridino groups or more and a molecular weight of at least 1000 and,

- b) as component Z2, at least one compound having 1 aziridino group, and

20

at least one compound according to component Z2 differing, in its chemical make-up, from at least one compound according to component Z1 in at least one further feature other than the number of the aziridino groups.

25

9. Dental material comprising at least one basic component B and at least one catalyst component K, basic component B comprising at least one composition according to one of claims 1 to 7 and catalyst component K comprising at least one catalyst for the cross-linking of at least part of basic component B.

30

10. Dental material according to claim 9, characterised in that it has after mixing of basic component B and catalyst component K at room

temperature, within a period of 20 minutes or less, a Shore A hardness of at least 80 % of the value of Shore A hardness reached after 24 hours.

5 11. Use of a composition according to one of claims 1 to 7 as basic component B for coatings, impression materials, seals or dental moulding materials.

10 12. Use of a compound having 1 aziridino group in accelerating the setting rate of dental materials according to one of claims 9 and 10.

15 13. Kit for producing dental materials, comprising at least one composition according to one of claims 1 to 7 as basic component B and at least one catalyst component K comprising a catalyst for the cross-linking of at least part of basic component B, the components B and K being present separated from one another.

20 14. Containers and mixing devices containing a dental material according to claim 9 or 10.